ABSTRACT OF SANITARY REPORTS.

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UNITED STATES.

VESSELS REMAINING, ARRIVING AT, AND DEPARTING FROM UNITED STATES QUARANTINE STATIONS.

CAPE CHARLES QUARANTINE.

Week ended September 18, 1891.

Two vessels inspected and passed. Seventeen vessels spoken.

DELAWARE BREAKWATER QUARANTINE,

Week ended September 19, 1891.

Seven vessels inspected and passed.

GULF QUARANTINE.

Week ended September 17, 1891.

Name of vessel.	Date of arrival.	Where from	Destina- tion.	Treatment of vessel and cargo.	Date of dep'ture,
Argentine Rep. bark Abbotts- ford (a).	Sept. 1	R' Pagi	Mobile	Disinfected	Sept. 15.
Norwegian bark Vause (a)	Sept. 4	Rio de Ja- neiro via Barbados.	Pensacola	do,,,	Sept. 13.
German barkentine Gasine(a)	Sept. 10	Tampico	Waiting or-	do	Sept. 15.
German bark Bertha Draheim (b) .	Sept. 12	Rio de Ja- neir	Ship Island	Disinfected wreck above deck and clothes of crew steamed.	Sept. 17.
Norwegian bk. Prince Regent.	Sept. 13	do	do	Held for disinfec-	0.000
British bark Saga	Sept. 14	Brazil	do	do	
British bark Aneroid	Sept. 17	Rio de Ja- neiro.	Mobile,	do	
Norwegian bark Livingston	Sept. 17	do	do,,	Wrecked on Chan- deleur Island and failed to get her off.	

a Previously reported. Given free pratique.

b Wrecked on Ship Island September 9, where captain was refused shelter for wife, child, and crew. Towed to quarantine station by steamer Leo, where shelter was given until September 18.

PORT TOWNSEND QUARANTINE.

Week ended September 12, 1891.

Eight vessels spoken and passed.

SAN DIEGO QUARANTINE.

Week ended September 15, 1891.

Five vessels boarded, inspected, and passed.

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VESSELS REMAINING, ARRIVING AT, AND DEPARTING FROM UNITED STATES QUARANTINE STATIONS—Continued.

SAN FRANCISCO QUARANTINE.

Week ended September 12, 1891.

Name of vessel.	ne of vessel. Date of arrival. Where from. Destination. Tre tion. K Royal Tar (a) Sept. 6 Australia via New Guinea.	Treatment of vessel and cargo.	Date of dep'ture.		
British bark Royal Tar (a)	Sept. 6	via New	Humboldt	Disinfected	Sept. 12

a Entered the Golden Gate flying the quarantine flag. All hands found to be suffering with scurvy. The captain and first officer died from "fever" and scurvy, and as the fever was of an unknown character the vessel was thoroughly disinfected and clothing and bedding burned.

SOUTH ATLANTIC QUARANTINE.

Week ended September 12, 1891.

British brig Aeronaut (a)	Aug. 23	Rio de Ja- neiro.	Fernandina	Unballasted and disinfected.	Sept.	11
Norwegian bark Helios (a)	Sept. 3		Savannah			

a Previously reported.

Reports of States, and yearly and monthly reports of cities.

ALABAMA—Mobile.—Month of August, 1891. Population, 31,076. Total deaths, 48, including phthisis pulmonalis 11 and croup 1.

California.—Month of Augus, 1891. Reports to the State board of health from 66 cities and towns, having an aggregate population of 706,054, show a total of 975 deaths, including phthisis pulmonalis, 122; enteric fever, 37; scarlet fever, 2; diphtheria, 25; measles, 3; and whooping cough, 7.

City and County of San Francisco.—Month of August, 1891. Population, 330,000. Total deaths, 550, including phthisis pulmonalis, 66; enteric fever, 17; scarlet fever, 1; diphtheria, 13; measles, 3; croup, 6; and whooping cough, 2.

CONNECTICUT.—Month of August, 1891. Reports to the State board of health from 167 cities and towns, having an aggregate population of 744,522, show a total of 1,248 deaths, including phthisis pulmonalis, 116; enteric fever, 42; scarlet fever, 16; diphtheria and croup, 25; and whooping cough, 5.

New Haven.—Month of August, 1891. Population, 81,298. Total deaths, 139, including phthisis pulmonalis, 13; enteric fever, 3; scarlet fever, 2; and diphtheria and croup, 3.

COLORADO—Denver.—Month of July, 1891. Population, 106,713. Total deaths, 182, including phthisis pulmonalis, 24; enteric fever, 6; scarlet fever, 3; diphtheria, 13; and whooping cough, 1.

Ten vessels boarded, inspected, and passed.

Month of August, 1891. Total deaths, 177, including smallpox, 1; enteric fever, 11; diphtheria, 13; measles, 1; and whooping cough, 2.

FLORIDA—Jacksonville.—Month of July, 1891. Population, 17,201. Total deaths, 63, including phthisis pulmonalis 7 and enteric fever 2.

Month of August, 1891. Total deaths, 46, including 6 from phthisis pulmonalis and 1 from enteric fever.

Pensacola.—Month of August, 1891. Population, 11,750. Total deaths, 24, including phthisis pulmonalis 1 and enteric fever 6.

Iowa—Davenport.—Month of August, 1891. Population, 26,872. Total deaths, 38. No deaths from contagious diseases.

MASSACHUSETTS—Worcester.—Month of August, 1891. Population, 84,655. Total deaths, 166, including phthisis pulmonalis 14 and diphtheria 11.

MICHIGAN.—Reports to the State board of health, Lansing, from 64 observers, indicate that diphtheria, scarlet fever, and intermittent fever increased, and that inflammation of brain, membranous croup, cerebro-spinal meningitis, erysipelas, puerperal fever, whooping cough, typhoid fever, influenza, and dysentery decreased in area of prevalence.

Diphtheria was reported present during the week at 32 places, scarlet fever at 32 places, enteric fever at 56 places, measles at 8 places, and 1 case of smallpox at Detroit.

Detroit.—Month of August, 1891. Population, 205, 876. Total deaths, 461, including phthisis pulmonalis, 38; enteric fever, 3; scarlet fever, 7; diphtheria, 14; croup, 5; measles, 5; and whooping cough, 4.

MISSOURI—St. Louis.—Month of August, 1891. Population, 451,770. Total deaths, 741, including phthisis pulmonalis, 59; enteric fever, 16; scarlet fever, 6; diphtheria, 13; croup, 3; and whooping cough, 3.

NEW HAMPSHIRE—Manchester.—Month of July, 1891. Population, 44,126. Total deaths, 98, including 5 from phthisis pulmonalis.

Month of August, 1891. Total deaths, 87, including phthisis pulmonalis 4 and enteric fever 2.

PENNSYLVANIA—Williamsport.—Month of August, 1891. Population, 27,132. Total deaths, 27, including 2 from diphtheria.

RHODE ISLAND—Newport.—Month of August, 1891. Population, 19,457. Total deaths, 57, including phthisis pulmonalis 1 and enteric fever 3.

TENNESSEE—Chattanooga.—Month of August, 1891. Population, 29,100. Total deaths, 64, including phthisis pulmonalis 8 and enteric fever 3.

Publications received.

The journal of the State medical society of Arkansas.

Proceedings and addresses at a sanitary convention held at Niles, Mich., February 5 and 6, 1891.

Report of the president of the board of health of Wilmington, Del., for 1890.

Annual report of the State board of health of Rhode Island for 1890. Proceedings of the national conference of State boards of health at the seventh annual meeting, held in Washington May 2 and 4, 1891.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

		. 98 . 38	Leon .				I	Peat	hs fr	om-	- ,			
Cities.	Week ended.	Population, U. Census of 1890	Total deaths	Phthisis pul- monalis.	Yellow fever.	Smallpox.	Varioloid.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Chicago, Ill	Sept. 19	1,099,850	472	28						52	8	17		
Brooklyn, N. Y	Sept. 19,	806, 343	374	39			*****			7	9	12	3	1
Boston, Mass	Sept. 19	448, 477	182	27		*****	*****			7		5	*****	
Baltimore, Md	Sept. 19	434, 439	167	16		*****	*****	*****	*****	7	3	7	*****	1
lan Francisco, Cal	Sept. 12	298, 997	********	17	*****	*****	*****			4	*****	4	*****	
Cincinnati, Ohio	Sept. 18	296, 908	98	11	*****					2	2	4		****
Vashington, D. C		230, 392	96	13	*****	*****		*****	*****	6		5	1	1
Vashington, D. C	Sept. 19	230, 392	124	13	*****	*** **	*****		*****	4	*****	11	*****	
Detroit, Mich	Sept. 19	205, 876	77		*****	*****	*****			2	1	3	*****	
filwaukee, Wis	Sept. 12	204, 468	85	- 5								8	-1	1
filwaukee, Wis	Sept. 19	204, 468	83	111						2		4	1	1
dinneapolis, Minn	Sept. 19	164, 738	34							4	1	3		
ouisville, Ky	Sept. 12	161, 129	58											
ouisville, Ky	Sept. 19	161, 129	63	*****						10	2	3		1
Rochester, N. Y	Sept. 19	133, 896	50	8				-		4	-		Inches	i
Cansas City, Mo	Sept. 12	132, 716	25	4			*****							
rovidence, R. I	Sept. 19	132, 146	39							ī			1	1
ndianapolis, Ind	Sept. 19	105, 436	36	2								5		*****
Coledo, Ohio	Sept. 18	81, 434	19				*****							1
Richmond, Va	Sept. 12	81, 388	32				******			*****	******			1 .
Richmond, Va	Sept. 19	81, 388	46							2	*****	-		
ashville, Tenn		76, 16%	26				******							****
Crie, Pa	Sept. 19	40, 634	12	*****			******							*****
ortland, Me	Sept. 19	36, 425	8	*****						-		*****	*****	****
Binghamton, N. Y	Sept. 19	35, 005	12	1			*****						*****	
Yonkers, N. Y	Sept. 12	32, 033	13	3			*****							
Yonkers, N. Y		32, 033	14	2										
Mobile, Ala	Sept. 19	31, 076	11				*****					*****		
	Sept. 19			1			*****					*****		
Jalveston, Tex	Sept. 4	29, 084	12	1								*****		
Jalveston, Tex	Sept. 11	29,084	5											
lan Diego, Cal	Sept. 12	16, 159	5									*****		
Rock Island, Ill		13,634	3	*****										
Rock Island: Ill		13, 634	6	*****	*****						*****	*****		
Pensacola, Fla	Sept. 12	11,750	5					*****	*****					

Table of temperature and rainfall, week ended September 18, 1891.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Mean te	mperature Fahrenhe	in degrees it.	Rainfall in inches and hun- dredths					
200mily.	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency			
New England States:						7 31			
Fastport Me	56	11		. 82					
Eastport, Me	58	42	*************	.70		1			
Roston Mass	63	32	**************	.70	***************	:			
Boston, Mass	63	14		.72	***************************************				
Iddle Atlantic States:	-								
Albany, N. Y	64	14	**********	.84		.5			
Albany, N. Y New York, N. Y	67	14		. 91					
Philadelphia, Pa	68	14							
Atlantic City, N. J	67	14		. 84					
Atlantic City, N. J	69	14		. 91					
Washington, D. C	68	9	*************	.95	******				
Lynchburg, Va Norfolk, Va	70	14	***************	.91					
Norfolk, Va	72	0		1.15					
outh Atlantic States:		1		2.00					
Charlotte, N. C	71	0		.71					
outh Atlantic States: Charlotte, N. C	76	14		1.63	***************************************	1.			
Charleston, S. C	76	0		1.47					
Augusta, Ga	76		14	, 95	***************************************				
Savannah, Ga Jacksonville, Fla Key West, Fla	76	0		1.48					
Jacksonville, Fla	78	0		1.89					
Key West Fla	82		14	1.81	.50				
ulf States:	-			2,02					
Atlanta, Ga	72	0		1.06					
Pensacola, Fla	78	0	****************	1.30	*************				
Mobile, Ala	78	0		1.20					
Montgomery Ala	76	0	**************	.77	*****************				
Montgomery, Ala Vicksburg, Miss	76	14	***************************************	1.00					
New Orleans La	70	0		1.19					
New Orleans, La	79	14	****************	1.12	***************************************	1.			
Shreveport, LaFort Smith, Ark	77	28							
Little Poek Ask	74	14	***************************************	.77					
Little Rock, Ark	79	14		.86	*************	*			
Palestine, Tex	76	0	*************	1.77	***********				
Galveston, Tex	79			1.83					
San Antonio, Tex	77	12	******	1.02	. 32				
Corpus Christi, Tex	79			1.90	************				
Brownsville, Tex	80	0		1.94	***************************************				
San Antonio, Tex	82	28	*************	.94	***********				
nio Valley and Tennessee :		28			1				
hio Valley and Tennessee: Memphis, Tenn Nashville, Tenn	78		***************************************	.79	************				
Nashville, Tenn	71	14	***************************************	.92	**********				
Chattanooga, Tenn	72		14	1.10	*************				
Knoxville, Tenn	71	0		.70	***********				
Knoxville, Tenn	70	28	************	.69	**********				
Indianapolis, Ind.	66	56	***** ********	.63	*************				
Cincinnati, Ohio	69	14	***************************************	.56					
Columbus, Unio	00	28	************	. 63	***********				
Pittsburg, Pa	67	14		. 63	************				
ake Region:	1	1				1			
Oswego, N. Y	62	14	****************	.70					
Rochester, N. Y	62	28	***************************************		**********				
Oswego, N. Y	62	28		.77	***********				
		28			.10	***********			
Cleveland, Ohio	61	42	*************	. 95	***********				
Sandusky, Ohio Toledo, Ohio	65	56		.70	*************				
Toledo, Ohio	64	56		.56					
Detroit, Mich	63	56							
Port Huron, Mich	. 61	42	************	. 52	.70	***********			
Alpena, Mich.	57	42	***************************************		70	***********			
Marquette, Mich	. 56	. 51				.1			
Grand Haven, Mich	. 60	42		. 84	*********				
Milwaukee, Wis	. 60	84	*************		**********	*			
Chicago, Ill.	63	70		.70	************				
Grand Haven, Mich. Milwaukee, Wis. Chicago, Ill. Duluth, Minn. Jpper Mississippi Valley: St. Paul, Minn.	. 56	28		1.01					
pper Mississippi Valley:		1			1	1			
St. Paul, Minn	. 60	56	************						
La Crosse, Wis	. 61	70	*************		.10	***********			
La Crosse, Wis Dubuque, Iowa	63	84	A	1.12	************	. 1			
Davenport, Iowa	. 65	70		.77	. 10				
Des Moines, Iowa	. 64	70	**********	. 84	***********				
Keokuk, Iowa	. 66	70	*****************	. 91		OK .			
Springfield, Ill	. 66	56		81					
Cairo, Ill	70	28	***************************************		***********				
St. Louis, Mo	70	56		. 83	1				

Table of temperature and rainfall, week ended September 18, 1891—Continued.

Locality.		mperature Fahrenbe		Rainfall in inches and hun- dredths.						
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency				
Missouri Valley:										
Springfield, Mo	68	42		.84		.8				
Kansas City, Mo	68	53	*****************	1.05	1	1.0				
Concordia, Kans	68	56		.56	*************					
Omaha, Nebr	65	70	*****************		***************************************	.5				
Valentine Nahr	61	70	**************	.77						
Valentine, Nebr			****************	.34	***********					
Huron, S. Dak	60	84	*************	. 35	*************	.8				
Pierre, S. Dak	63	. 84	***************	.21	************	.2				
Extreme Northwest:					1					
Moorhead, Minn	56	53	*************	.56	************	.3				
Bismarck, N. Dak	57	56	*************	. 22	************	.2				
Buford, Fort, N. Dak	56	28 .		.21	************	.2				
Rocky Mountain Siope:										
Assinniboine, Fort, Mont	55	28		.28	**********	.2				
Helena, Mont	57	28	***************	.28		.1				
Salt Lake City, Utah	64	14		.17	**************	.1				
Cheyenne, Wyo	57	42		. 21		. 2				
North Platte, Nebr	63	42		.35		5				
Denver, Colo	62	56		.17		.1				
Montrose, Colo	62	14		.14	***************************************					
Pueblo, Colo	64	56		.33	***************************************					
Dodge City, Kans	68	42		.21	1					
Sill, Fort, Ind. T	72	42		.70	**********					
Santa Fé, N. Mex	60	28	***************************************	.31	40					
Pacific Coast:	00	20	*******	. 01	. 40	***********				
Olympia, Wash	57	14		-	-					
Postland Ossa	62		***************************************	. 65	.70	***********				
Portland, Oreg				.36	.50	************				
Roseburg, Oreg	61	14	***************	.14	.20	***********				
Red Bluff, Cal	. 74	***************************************		.14	************	.1				
Sacramento, Cal	71		37	.07	************					
San Francisco, Cal	62	0		.07		. (
Los Angeles, Cal	70		14.	.00	.10					
San Diego, Cal	68	0	***************************************	.00		.0				
Yuma, Ariz	85		28	.00	*************	.0				

FOREIGN.

(Reports received through the Department of State and other channels.)

AUSTRALIA—Brisbane.—Month of June, 1891. Total deaths, 108, including 4 from enteric fever and 7 from diphtheria.

Melbourne — Month of June, 1891. Total deaths, 649, including phthisis pulmonalis, 54; enteric fever, 11; influenza, 2; diphtheria, 16; measles, 1; and whooping cough, 7.

BRAZIL—Bahia.—According to official information, 42 cases of yellow fever, 15 of which were fatal, were received at the yellow fever hospital from March 4, the date of the opening of the hospital, to June 10, 1891.

Muceio.—Month of June, 1891. Population, 17,000. Total deaths, 42. No deaths reported from contagious diseases.

Para.—Month of August, 1891. Population, 80,000. Total deaths, 156, including yellow fever, 15; enteric fever, 4; phthisis pulmonalis, 13; and leprosy, 2.

CHINA—Amoy—Cholera.—Under date of September 12, 1891, the United States consul telegraphs, "Cholera at Amoy."

CEYLON.—Year of 1890. Total deaths, 68,600, including phthisis pulmonalis, 2,104; smallpox, 88; chicken pox, 37; enteric fever, 2,854; influenza, 67; diphtheria, 8; measles, 287; and whooping cough, 38.

CUBA—Havana.—The United States sanitary inspector reports as follows, under date of September 14, 1891:

There were 614 deaths in this city during the month of August, 1891. Sixty-seven of these deaths were caused by yellow fever, 32 by so-called pernicious fever, 12 by enteric fever, 3 by bilious fever, 7 by paludal fevers, 28 by smallpox, 1 by fliphtheria, and 2 by measles.

Forty-four of the deaths by yellow fever were in the military hospital, while the remaining 23, or about one-third, occurred among civilians in different parts of the city.

France—Marseilles.—Month of August, 1891. Population, 406,919. Total deaths, 872, including smallpox, 23; enteric fever, 48; scarlet fever, 2; diphtheria and croup, 36; measles, 20; and whooping cough, 2.

Nantes.—Month of July, 1891. Population, 127,482. Total deaths, 223, including phthisis pulmonalis, 36; enteric fever, 31; typhus fever, 9; and whooping cough, 4.

GERMANY—Brunswick.—Month of July, 1891. Population, 103,050. Total deaths, 193, including scarlet fever 3 and diphtheria 8.

GILBERT ISLANDS—Butaritari.—Period of twenty weeks ended July 11, 1891. Population, 3,000. Total deaths, 8. No deaths reported from contagious diseases.

GREAT BRITAIN—England and Wales.—The deaths registered in 28 great towns of England and Wales during the week ended September 5, corresponded to an annual rate of 16.8 a thousand of the aggregate population, which is estimated at 9,405,108. The lowest rate was recorded in Nottingham, viz, 11.3, and the highest in Preston, viz, 27.5 a thousand.

London.—One thousand two hundred and ninety-nine deaths were registered during the week, including measles, 10; scarlet fever, 5; diphtheria, 24; whooping cough, 40; enteric fever, 10; and diarrhoea and dysentery, 88. The deaths from all causes corresponded to an annual rate of 17.8 a thousand. Diseases of the respiratory organs caused 155 deaths. In greater London 1,668 deaths were registered, corresponding to an annual rate of 15.4 a thousand of the population. In the "outer ring" the deaths included whooping cough 15 and diphtheria 10.

Ireland.—The average annual death rate represented by the deaths registered during the week ended September 5, in the 16 principal town districts of Ireland, was 18.0 a thousand of the population. The lowest rate was recorded in Lisburn, viz, 8.6, and the highest in Lurgan, viz, 50.6 a thousand. In Dublin and suburbs 127 deaths were registered, including enteric fever, 2; diphtheria, 2; and whooping cough, 4.

Scotland.—The deaths registered in 8 principal towns during the week ended September 5 corresponded to an annual rate of 18.5 a thousand of the population, which is estimated at 1,338,314. The lowest mortality was recorded in Leith, viz, 11.9, and the highest in Pesth, viz, 23.6 a thousand. The aggregate number of deaths registered from all causes was 477, including measles, 1; scarlet fever, 2; diphtheria, 4; whooping cough, 13; fever, 7; and diarrhea, 45.

ITALY—Milan.—Month of July, 1891. Population, 410,814. Total deaths, 913, including enteric fever, 22; scarlet fever, 2; and diphtheria, 28.

Turin.—Month of June, 1891. Population, 320,041. Total deaths, 527, including smallpox, 1; enteric fever, 12; scarlet fever, 2; diphtheria, 12; plague, 1; measles, 6; and whooping cough, 4.

MADAGASCAR—Tamatave—Smallpox.—Under date of August 9, 1891, the late United States consul reports that on account of several cases of smallpox having been reported in the town of Tamatave, a quarantine has been declared again t it, and no one is allowed to leave the town until it is determined what phase the malady will assume.

MEXICO—Paso del Norte.—Month of August, 1891. Population, 10,000. Total deaths, 17. No deaths reported from contagious diseases.

SWITZERLAND—Zurich.—Month of July, 1891. Population, 91,323. Total deaths, 136, including phthisis pulmonalis, 23; smallpox, 1; typhus fever, 1; and diphtheria and croup, 3.

West Indies—Turk's Islands.—Four weeks ended August 26, 1891. Population, 4,744. Total deaths, 19. No deaths from contagious diseases.

Cholera in the East.

[Translated for this Bureau from the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, August 25, 1891.]

Official advices confirm the report of an outbreak of cholera among the pilgrims lately arrived at Tor from Djeddah. Four cases, two of which were fatal, occurred among the passengers by the steamers Hassam Pascha and Mansourah. Three deaths, which occurred among the 580 passengers by the steamer Tarsus during the voyage from Djeddah, are stated by the captain to have been due to other causes.

According to official intelligence, the cholera epidemic in Syria is on the decline. The total number of deaths reported from August 5 to

August 11 for Aleppo is 136.

Telegraphic communication with Djeddah being interrupted, no reports have been received since August 2 from the Hedjaz. The latest report is as follows: Mecca, August 2, 34 deaths; Djeddah, August 1 to 7, 23 deaths.

Official reports show the sanitary condition of the East Indies for the months of April, May, and June to have been more favorable than for the same months in the past year. Beside the epidemic outbreak of cholera in the Celebes, many sporadic cases of cholera occurred in June in Soerabaya and various localities on the east coast of Sumatra. Grippe was widely diffused, but the disease did not, as in the past year, assume a malignant character. Smallpox, fever, and dysentery are more than usually frequent on the east and west coasts of Sumatra. In Calcutta, for the week ended July 11, 4 choleraic deaths are reported.

Cholera in the Hedjaz and the vilayet of Aleppo, 1891.

[Translated for this Bureau from La Revue Médico-Pharmaceutique, Constantinople, August 31, 1891.]

The sanitary condition of the Ottoman Empire was satisfactory at the beginning of May, 1891. There was no report of cholera from any direction.

On May 8 cholera was declared at the quarantine station on the island of Cameran. The outbreak occurred among Hindoo pilgrims disembarked a few days previously from the English vessel Sculptor, from Bombay. Twelve of the pilgrims died. Of the rest, all but seven were returned to Bombay on the same vessel at their own request.

Seven of the pilgrims remained at Cameran and subsequently resumed their pilgrimage to the Hedjaz. There has been no later appearance of cholera at Cameran.

Early in June a suspicious disease analogous to cholera was reported at Herim, some hours travel west of Aleppo. It was officially declared to be cholera June 11. The disease reached Aleppo, which became the focus of an epidemic radiating as far as Antioch, Beylan, and Alexandretta, along the Littoral, Maarat, in the south, and some villages on the banks of the Euphrates, in the east. In the north and northeast the disease threatens the towns along the route from Aleppo to Sivas.

The number of deaths officially registered at Aleppo from June 9 to

August 16 is 846. It should be estimated at 1,800 or 2,000.

On July 11, some days before the commencement of the religious ceremonies at Mecca, cholera was reported in the persons of three pilgrims, two of whom (Malays) were returning from Medina and one from Djeddah. Mortality rose rapidly from 25 or 30 deaths a day to 400 and more. Official statistics show 3,154 choleraic deaths from July 11 to August 6, but the number should be cited at 7,000 or 10,000 at the very least.

The dispersion of the pilgrims caused a rapid diminution, and finally a cessation of the epidemic. The disease is now extinct in the Hedjaz and among the pilgrims, thousands in number, who returned home by way of the Red Sea and who are at the present time in camp at Djebelel-Tor at the foot of Mount Sinai, cases of cholera have been rare.

With regard to the origin of the two choleraic epidemics, the epidemic now prevailing in the vilayet of Aleppo is undoubtedly a reproduction of that of last year, some cases of which occurred as late as the last of January, 1891. This epidemic began in July, 1889, on the lower Euphrates, and, after ravaging Mesopotamia, remained latent during the winter of 1889–1890. In June, 1890, it revived and spread north and east to the vilayets of Mossoul, Van, Bittis, Diabekir, and Aleppo, in which place it again became latent during the winter months of 1890–'91, to revive a second time in June of the current year.

The origin of the choleraic epidemic of the Hedjaz is not so clear. Its importation by caravan is not probable. It has no connection with the epidemic of Aleppo, for the Damascus caravan left for Mecca more than a month and a half before the appearance of the disease at Herim. The sanitary physician at Medina and the physicians attached to the several caravans stated the absence of any suspicious case among the

pilgrims.

Experience shows that the disease travels by sea from the Indies to the Hedjaz. The following facts are cited in verification of this state-

ment :

From 1881 to 1891, cholera has prevailed five times in the Hedjaz, and each time it was previously declared at the Red Sea ports or in Egypt. It was imported from Bombay to Aden in 1881 by the English pilgrim vessel Columbian; in 1882, to Cameran, by the English vessel Hesperia; in 1890, from Bombay to Cameran, by the English vessel Deccan; and in 1891, from Bombay to Cameran, by the English vessel Sculptor. Invariably the appearance of cholera in the Hedjaz has been simultaneous with the pilgrim epoch. Such a coincidence can not be accidental, and it clearly demonstrates India. and especially the port of Bombay, to be the source of cholera epidemics in the Hedjaz. The

epidemic which in 1889 broke out suddenly in Irak-Araby, on the shores of the Persian Gulf, had undoubtedly the same origin.

The five epidemics of 1881, 1882, 1883, 1890, and 1891, which numbered more than 50,000 victims among the pilgrims to the Hedjaz, were

imported from the Indias by way of the Red Sea.

The Persian Gulf and the Red Sea are in fact only two extensions of the Indian Ocean into the heart of the Ottoman Empire. They are two wide doors set open for the entry of merchandise, and passengers, pilgrims especially, carrying cholera developed or in the germ. Here, then, is the point of danger, and here a barrier for permanent defense should be established.

Formerly cholera reached Europe by the land routes, as witness the great epidemic of 1831 and its successors, but during the last twenty or thirty years the disease has followed the route of the fast steam-

vessels plying in the Arabian and Persian Gulfs.

Sanitary measures against cholera adopted by the Governments of Turkey and Austria.

[Translated for this Bureau from La Revue Médico-Pharmaceutique, Constantinople, August 31, 1891.]

1. A sanitary cordon has been established on the Euphrates, with stations at Beridjek, Roum-Kahel, and Messoudié.

2. A number of physicians have been sent to the infected localities.

3. Orders have been issued for the incineration of tents used at Aleppo during the choleraic epidemic of last year. The authorities of Aleppo have been directed to prohibit the burial of the bodies of persons dead from cholera in the cemeteries in actual use, but to have such bodies interred at a distance from the city.

4. A guard-ship shall be stationed at Yemen-Kalé, in the Gulf of Smyrna, to prevent vessels coming from the infected seaports from pass-

ing the lazaretto of Clazomenes.

By order of the Sultan a commission has been appointed to take preventive measures against cholera. The commission is composed of His Excellency Naoum Effendi, secretary-general for foreign correspondence at the department of foreign affairs; His Excellency Chemseddin Effendi, chief of the consular bureau; Riza Bey, solicitor to the same bureau; President, His Excellency Salih Mamir Bey, secretary-general for Turkish correspondence at the department of foreign affairs.

Measures have been taken with regard to the sacred caravan, which has already left Medina for Damascus. A quarantine station has been established at Ainrzerco, some leagues south of Damascus, at which pilgrims will be subjected to ten days' quarantine, with daily medical visits and disinfection of clothing and effects.

Pilgrim vessels destined for Ottoman ports shall, after strict quarantine of twenty days at the lazaretto of Tor, undergo the usual quaran-

tine at the lazaretto of Beirut or Clazomenes.

Three thousand seven hundred and fifty-eight returning pilgrims

have arrived at the quarantine encampment at Tor.

Austria.—The Austrian Government has subjected all importations arriving at Austrian ports from Syria and the Red Sea to a quarantine of seven days.

MORTALITY TABLE, FOREIGN CITIES.

	PHENT	ala a	from			. 1	Deat	hs f	rom-	- 1		
Cities.	Week ended.	Estimated populs.	Total deaths f	Cholera.	Vellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtherfa.	Measles.	Whooping
London	Aug. 29	5, 659, 909	1,743				*****	11	12	25	17	
Paris Vienna	Sept. 5 Aug. 15	2, 260, 945 1, 378, 530	813 517		*****	1 2		5	3	15	7 5	
Hamburg	Aug. 22	570, 534	248		******	-	******	2	3	130	9	
Hamburg	Aug. 29	570, 534	267					2	6			
GlasgowGlasgow	Aug. 29	567, 143	199		*****		*****	4	2	1		1
Liverpool	Sept. 5 Aug. 29	567, 143 517, 951	212 227				*****	5 2	3	1	*****	
Liverpool	Sept. 5	517, 951	210				1	8	3	3		
Buda Pesth	Aug. 20	507,000 430,000	***********		*****		î		7	7		
Lyons	Aug. 22	430,000	169		*****	*****		3		2		
Lyons	Aug. 29 Aug. 29	430,000	-165 208	*****		*****		2	*****	3	*****	*****
Rome	Aug. 22	417, 392 417, 392	168	*****	*****	*****	*****	6 2	*****	8	1 2	
Leipzig	Aug. 29	362, 555	168				*****	2	1	1	i	1
Leipzig	Sept. 5	362, 555	208					1	1	4	*****	1
Munich Copenhagen	Aug. 22 July 25	349,000 320,000	167 111		*****	*****	*****	*****	3	6		****
Copenhagen	Aug. 1	320,000	116		****			1	1	7 3	*****	1
Copenhagen	Aug. 8	320,000	107		*****				î	6		
Copenhagen	Aug. 15	320,000	118	*****	*****		*****	1	1	6		
Copenhagen	Aug. 22	329,000	109		*****					5	*****	
CopenhagenOdessa	Aug. 29	320,000 295,000	121 152	*****	*****		*****	1 2	1	2 2	-1	***
Dresden	Aug. 29	276, 533	102		******	*****	*****	-		2	.1	
Dresden Edinburgh	Aug. 29	261, 970 261, 970	93		*****			1	1	2		
Edinburgh	Sept. 5	261, 970	82				****		*****			
Belfast Palermo	Aug. 29	255, 896 250, 000	108		*****		*****	2	****	*****		
Antwerp	Sept. 5	238, 788	149				*****	1	*****	1	*****	
Bristol	Sept. 5	222, 049	62		******				******	1	*****	
Rotterdam	Sept. 5	209, 134	65	*****								
Pernambuco	Aug. 18	200,000	82			1	*****					
Pernambuco Newcastle-upon-Tyne	Aug. 25 Sept. 5	200,000 186,500	75 135	*****	*****		*****		*****			***
Prague	Aug. 29	182, 530	90		******		*****	3	1	3		
Genoa	Sept. 5	181, 158	68				3			1	1	****
Frankfort-on-the-Main	Aug. 29	179, 850	56	*****			*****	*****		1		
Venice	Aug. 23	159, 190	78		*****		*****	8				
TriesteGhent	Aug. 29 Aug. 29	158, 054 152, 395	104		*****		*****	****	*****	*****	1	
Christiania	Aug. 29	152, 395 150, 400	71 58	*****		*****		1	1	1		
Nuremberg	Aug. 22	142, 523	74	*****	*****			1	3	1		
Stuttgårt Hiogo	Sept. 5	139, 659 136, 012	46		*****				*****	3		
Funchal	Aug. 19 Aug. 29	133, 250	102	*****			1		******	*****		****
Bremen	Aug. 29	125, 500 116, 500 116, 500	37	******	1		*****	*****		*****	*****	1
Stettin	Aug. 29	116,500	69	*****				26	******			-
Stettin	Sept. 5	116, 500	64				*****	24				
Havre Crefeld	Aug. 22 Sept. 5	112,074 108,000	61 82	*****			*****	2	*****	1 2		
Rheims	Sept. 5	105, 993	45				*****	*****		*		1
RheimsAix-la-Chapelle	Aug. 30	105 058	64							*****		
Zurich	Aug. 22	91, 323 91, 323 80, 000	18	-					1	2	10	
Zurich	Aug. 29 Aug. 29	91, 323	14 33	*****	*****	*****		****	. 1	8	1	
Mannheim	Sept. 5	80,000	35	*****	-	*****				1		
Pará	Aug. 23	80,000	34	******			******	3			4	
Pará	Aug. 30	80,000	44		1			2	*****	** **		
Leith	Aug. 29	69, 933	19 16	*****		*****						
Leith	Sept. 5 Aug. 29	69, 983 43, 095	13	*****		*****		*****		1	****	
Cienfuegos	Sept. 6	41, 647	20	*****		*****						
Cienfuegos	Sept. 13	41, 647	11				Second.					
Marsala	Aug. 29	40, 131	21	*****	*****	*****						
Matanzas Curacoa	Sept. 5	40,000	31	*****	*****	*****						
Gibraltar	Sept. 6	26, 245 25, 755	4	*****		1	*****	1		****	* ****	
Schiedam	Sept. 5	25, 437	7	*****	-		1			*****	*****	****
Vera Cruz	Sept. 11	25,000	13		7							
Girgenti	Aug. 29	23, 947	8	*****								
Licata Kingston, Can	Aug. 29 Sept. 12	20,000 18,172	8	*****	*****	*****			1	*****		

MORTALITY TABLE, FOREIGN CITIES-CONTINUED.

	4 10		Tom	Deaths from—										
Cities.	Week ended.	Estimated poption.	Total deaths f	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.		
Sagua la Grande	Cont 5	18, 109	5	-										
Hamilton	Sept. 8	15, 013	2					-			1			
Hamilton	Sept. 15	15,013	ī	1		-				1				
Flushing	Sept. 5	13, 200	3							1				
t, Thomas, W. I	Aug. 21	12,019	28	1										
St. Thomas, W. 1	Aug. 28	12,019	27	1						1		1		
St. Thomas, W. I	Sept. 4	12,019	27	1			1				1	100		
Matamoras		12,000	7	1	-		1	1			1	1		
Juelph	Sept. 12	10, 539	4			1		1				1		
ruxpan	Aug. 29	9,000	6		1	1	1			1				
hatham	Sept. 19	8,730	2											
La Guayra :		7,641	3											
La Guayra		7,641	2											
Port Sarnia		6,600	2				1							
Coaticook		3, 800	2								*****			
Livingston		3,000	2											

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